

What is claimed is:

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1. A method of forming a honeycomb sandwich composite panel comprising the steps of:

stacking a dry fabric on both sides of a honeycomb core with a thermosetting sealing material having an adhesive property placed in between;

heating said sealing material and said dry fabric at the curing temperature of said sealing material to cause initial hardening of said sealing material and to dry said dry fabric;

impregnating said dry fabric with a thermosetting resin; and

hardening the resin impregnated into said dry fabric by hot-pressing an entire assembly thus prepared under specific conditions.

2. A method of forming a honeycomb sandwich composite panel comprising the steps of:

stacking a dry fabric on both sides of a honeycomb core with a thermosetting sealing material having an adhesive property placed in between;

hardening said sealing material by heating said sealing material and said dry fabric to the curing temperature of said sealing material and maintaining this temperature for a specified period of time;

impregnating said dry fabric with a thermosetting resin while varying the temperature of said sealing material and said

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dry fabric to a resin impregnating temperature and maintaining this temperature for a specified period of time; and

hardening the resin impregnated into said dry fabric by heating said sealing material and said dry fabric to the curing temperature of said thermosetting resin and hot-pressing them for a specified period of time.

a 3. The method of forming the honeycomb sandwich composite panel as defined in claim 1 ~~or 2~~, wherein said sealing material is a laminated film formed by laminating a plurality of thermosetting resin films in which glass microballoons are mixed.

a 4. The method of forming the honeycomb sandwich composite panel as defined in claim 1 ~~or 2~~, wherein said sealing material is a laminated film formed of at least two thermosetting adhesive films and a carrier material placed between the thermosetting adhesive films.

a 5. The method of forming the honeycomb sandwich composite panel as defined in claim 1 ~~or 2~~, wherein said sealing material is a laminated film formed of at least two thermosetting adhesive films and a thermosetting resin film placed between the thermosetting adhesive films, with glass microballoons mixed in the thermosetting resin film.

a 6. The method of forming the honeycomb sandwich composite panel as defined in claim 1 ~~or 2~~, wherein said sealing material

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is a laminated film formed by laminating a plurality of thermosetting adhesive films.

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7. The method of forming the honeycomb sandwich composite panel as defined ~~in one of claims 1 to 6~~, wherein said sealing material is hardened at a temperature lower than the curing temperature of the impregnating resin.

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8. The method of forming the honeycomb sandwich composite panel as defined ~~in one of claims 1 to 6~~, wherein said sealing material is hardened at a temperature equal to or higher than the curing temperature of the impregnating resin.

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9. The method of forming the honeycomb sandwich composite panel as defined ~~in one of claims 1 to 6~~, wherein said sealing material is hardened at a temperature equal to or higher than the curing temperature of the impregnating resin.

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